Instructor:	Dr. Richard Shadrach	**Time:**	MWF 1:00-1:50PM
Office:	214 Herman Brown Hall	**Classroom:**	227 Herman Brown Hall
Email:	shadrach@rice.edu	**Office Hours:**	Tu 3-4pm, W 10-11am, Th 2-3pm (and by appointment)

Course Webpage: http://math.rice.edu/∼rs53/Math365Fa14

Text: *An Introduction to the Theory of Numbers*, 5th ed. I. Niven, H. Zuckerman, and H. Montgomery.

Coverage: Most of the material in chapters 1-4. Time permitting we will cover material on continued fractions, Pell's equation, and the p-adic numbers. A detailed list of topics will be maintained on the course webpage as the semester progresses.

Homework: Homework is due every week on **Friday in class**. Homework is a key part of this course and you should expect to spend a significant amount of time on it. The homework is not pledged and you are encouraged to collaborate with other students in the class. However, your solutions must be **written up individually**.

Exams: There will be two in-class midterm exams. They will be on **Friday September 29th** and **Friday November 7th**. There will also be an in-class Final Exam during the Fall Exam Period. The date of this exam is yet to be determined by the Registrar's Office.

> **Warning:** It is the policy of the Mathematics Department that no final may be given early to accommodate student travel plans. If you make travel plans that later turn out to conflict with the scheduled exam, then it is your responsibility to either reschedule your travel plans or take a zero in the final.

If an exam conflicts with a holiday you observe, please let me know now.

Attendance: Attendance, while strongly recommended, is not required and is not a factor in determining your grade. A missed homework or exam will count as a zero. Under exceptional circumstances (e.g. illness, death in the family), a homework will be excused or a makeup exam will be allowed. In any such case, written documentation must be provided.

Grades: Homework will count for 30% of your grade. Each midterm will count for 20% and the final will count for 30%.

Expectations: A successful student in this course will end the semester being able to write clear and rigorous proofs. They will also have an understanding of the problems and techniques studied and used in elementary number theory. These techniques will allow them to attack problems and investigate number-theoretic phenomena.

Disability Support: Any student with a documented disability seeking academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All such discussions will remain as confidential as possible. Students with disabilities will need to also contact Disability Support Services in the Allen Center.